

web-like structure having smooth surfaces. By comparison, photomicrographs of foamed and flat metal substrates taken at corresponding and higher magnification levels after an anchor layer has been electric-arc sprayed thereon show the roughened surface that results from electric-arc spraying an anchor layer onto a substrate as taught herein. For example, Figures 2A, 2B and 2C show sections of a high temperature, flat steel plate substrate 100 and a nickel aluminide anchor layer 110 electric-arc sprayed thereon, at magnifications of 500x, 1.51kx and 2.98kx, respectively. As is evident from these Figures, the anchor layer 110 provides a highly irregular surface on the substrate 100. Accordingly, the anchor layer 110 effectively increases the surface area on which catalytic material may be deposited on the carrier relative to a non-sprayed substrate and it provides structural features such as crevices, nooks, etc., that help prevent spalling of catalytic material from the anchor layer. Figures 2A through 2C illustrate that the relatively low temperature of the electric-arc spray process deposits the metal feedstock for the anchor layer on the substrate at a temperature that permits the feedstock to freeze when it impinges upon the substrate rather than remaining molten and flowing into a smoother configuration.

Page 24, 3rd through 10th lines:

A preferred way of inserting the core body 125 into the jacket tube 130 is depicted in Figure 3K. As shown, the jacket tube 130 is mounted on a pedestal 136 and fitted at its upper end with an annular tapered die 138 having a frusto conical inner surface 139 which converges downwardly to an inside diameter equal to the inside diameter of the jacket tube 130. A ram 140 is used to force the core body 125 through the tapered inner surface 139 of the die 138 so that as the core body enters the jacket tube 130 it is compressed to reduce the diameter of the core body periphery 126 (Figure 3I) by the approximately one to three percent indicated above.

In The Claims

Amend the following claims to read as shown below. A separate paper showing the changes is attached hereto.